

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P453490

Luminaire Tested: **GALN-SA4C-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19831 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

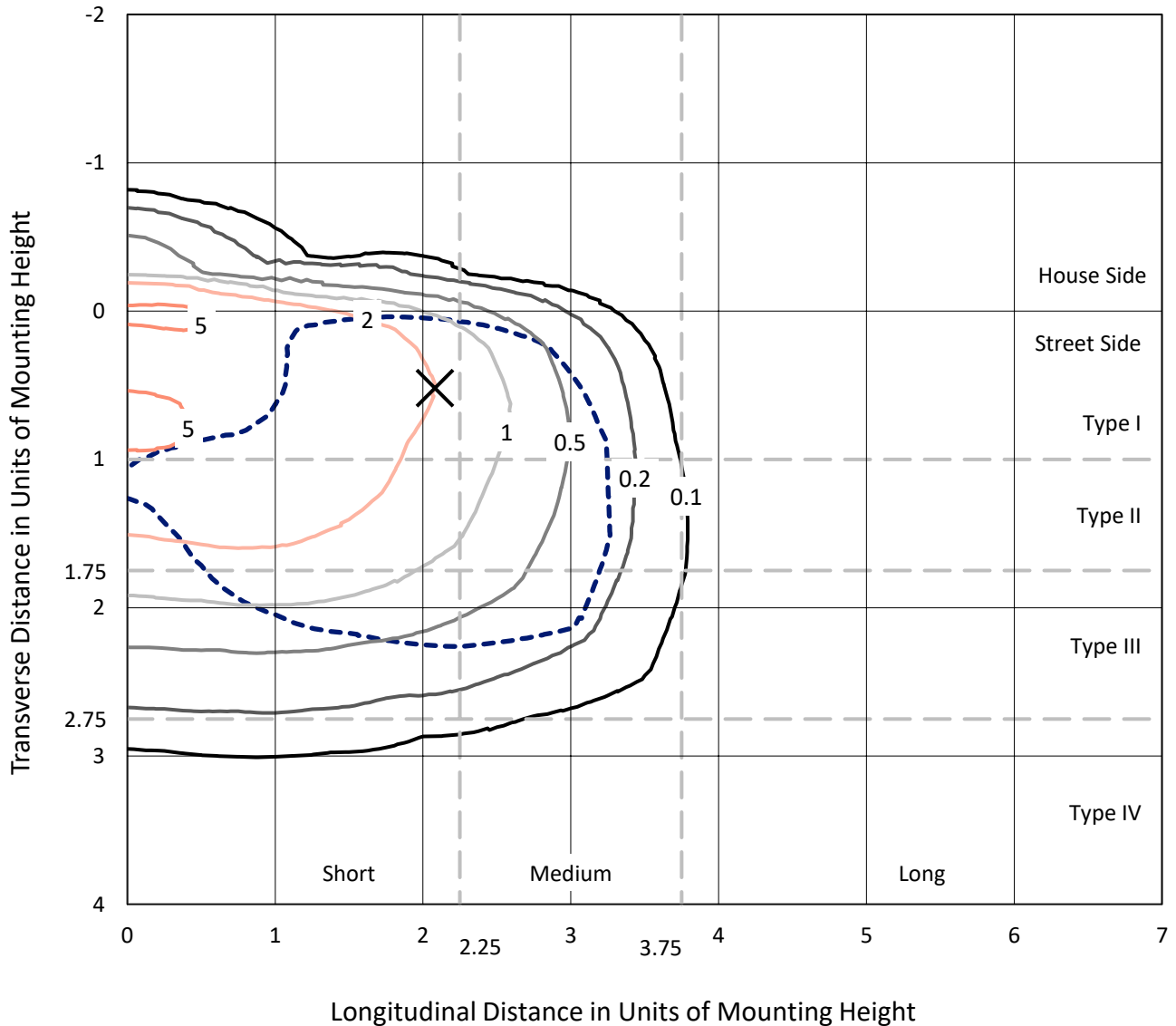
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

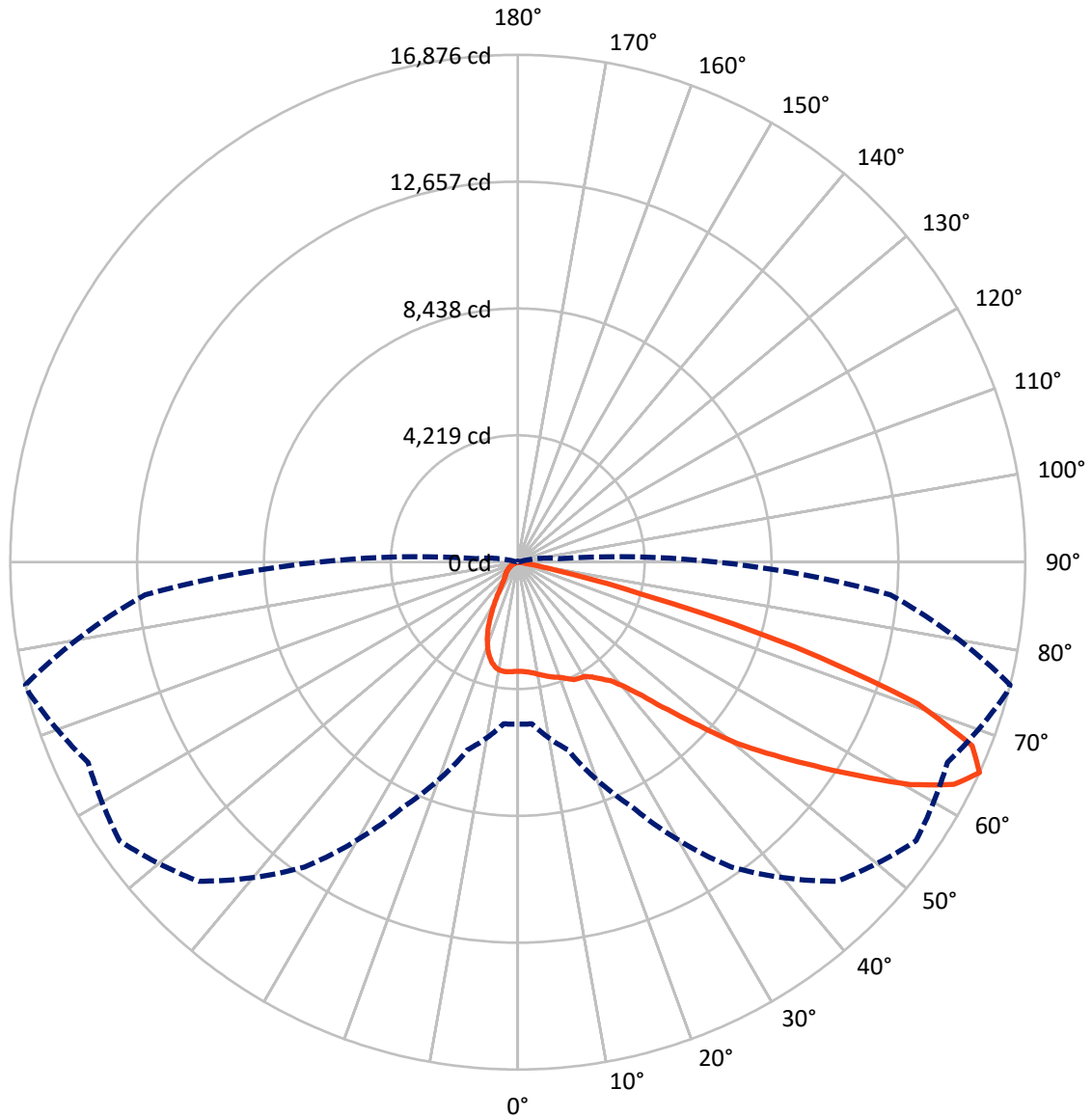
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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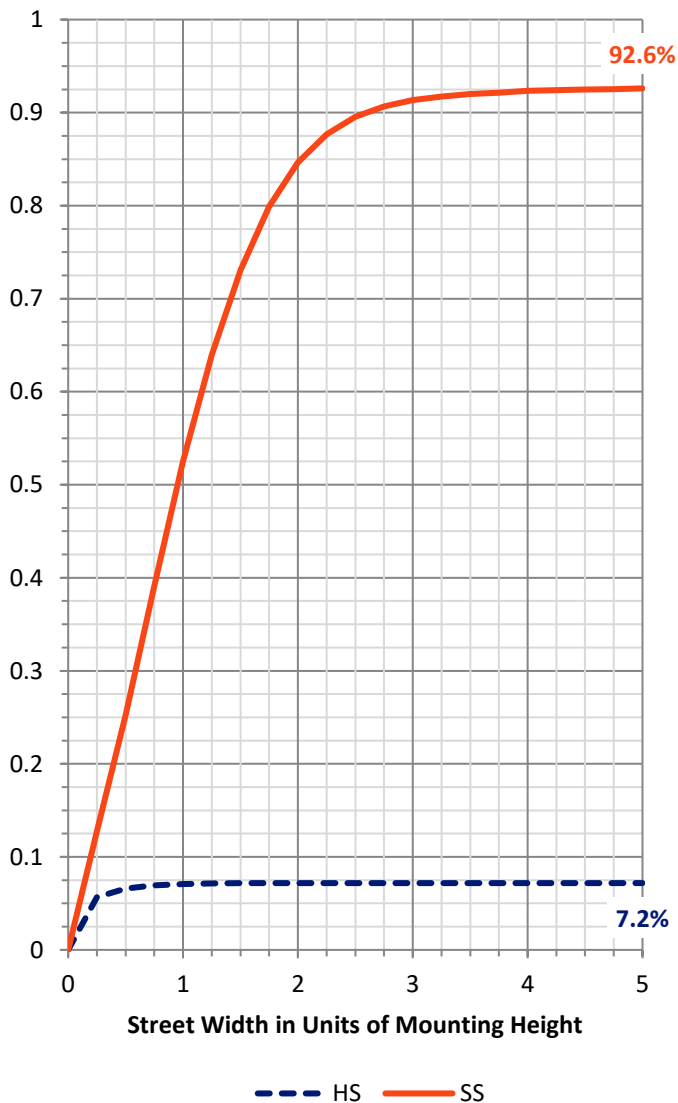
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1432.2	0.0	1432.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	18398.8	0.0	18398.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	19831.0	0.0	19831.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.8	1.5
10°-20°	665.4	3.4
20°-30°	1072.2	5.4
30°-40°	1864.3	9.4
40°-50°	3080.7	15.5
50°-60°	4759.0	24.0
60°-70°	5811.4	29.3
70°-80°	2205.6	11.1
80°-90°	73.6	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	19831.0	100.0
0°-180°	19831.0	100.0



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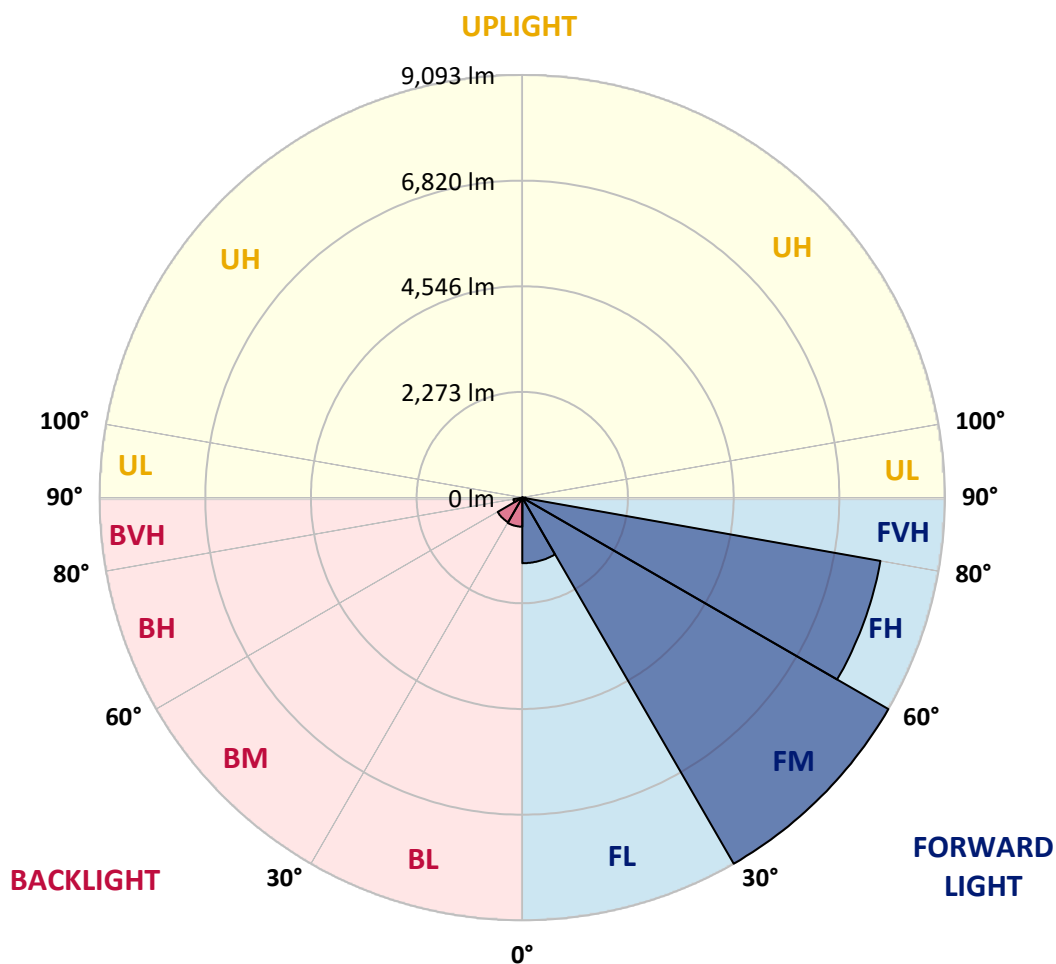
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1410.7	7.1			
FM	(30°-60°)	9092.8	45.9			
FH	(60°-80°)	7822.7	39.4			G4/12000
FVH	(80°-90°)	72.6	0.4			G1/100
BL	(0°-30°)	625.7	3.2	B2/1000		
BM	(30°-60°)	611.1	3.1	B1/1000		
BH	(60°-80°)	194.3	1.0	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7
2.5°	3466.7	3468.1	3476.5	3497.5	3529.7	3556.3	3578.7	3615.1	3640.3	3643.1	3651.5
5°	3227.3	3210.5	3227.3	3281.9	3330.9	3405.1	3496.1	3587.1	3668.3	3673.9	3713.1
7.5°	2958.5	2972.5	2999.1	3055.1	3147.5	3260.9	3392.5	3554.9	3708.9	3722.9	3799.9
10°	2685.4	2716.2	2759.6	2845.1	2973.9	3120.9	3300.1	3532.5	3773.3	3792.9	3925.9
12.5°	2433.4	2447.4	2500.6	2615.4	2775.0	2982.3	3230.1	3519.9	3844.7	3868.5	4060.4
15°	2240.2	2258.4	2304.6	2408.2	2586.0	2852.1	3172.7	3515.7	3914.7	3948.4	4194.8
17.5°	2203.8	2215.0	2234.6	2304.6	2460.0	2748.4	3120.9	3514.3	3982.0	4022.6	4319.4
20°	2353.6	2343.8	2324.2	2317.2	2402.6	2668.6	3083.1	3525.5	4046.4	4092.6	4451.0
22.5°	2728.8	2741.4	2626.6	2490.8	2462.8	2656.0	3077.5	3578.7	4148.6	4203.2	4598.0
25°	3525.5	3428.9	3249.7	2924.9	2679.8	2733.0	3140.5	3704.7	4267.6	4327.8	4731.0
27.5°	4406.2	4376.8	4098.2	3563.3	3106.9	2895.5	3252.5	3801.3	4306.8	4368.4	4806.6
30°	5271.5	5306.5	4987.2	4396.4	3727.1	3196.5	3357.5	3837.7	4341.8	4406.2	4903.2
32.5°	6073.7	6115.7	5835.7	5250.5	4458.0	3717.3	3538.1	3979.2	4488.8	4554.6	5064.3
35°	6705.2	6710.8	6499.4	6033.1	5256.1	4350.2	3928.7	4227.0	4687.6	4764.6	5235.1
37.5°	7284.8	7276.4	7028.6	6626.8	5921.1	4978.8	4420.2	4512.6	4914.4	4994.2	5481.5
40°	7714.7	7720.3	7640.5	7262.4	6541.4	5559.9	4809.4	4780.0	5295.3	5419.9	5839.9
42.5°	8001.7	8053.5	8092.7	7900.9	7321.3	6275.4	5407.3	5352.7	5956.1	6059.7	6346.8
45°	8234.1	8326.5	8522.6	8512.8	8070.3	7153.2	6227.8	6115.7	6892.8	7003.4	6992.2
47.5°	8403.5	8497.4	8822.2	9018.2	8774.6	8004.5	7259.6	7163.0	8011.5	8131.9	7704.9
50°	8490.4	8602.4	9016.8	9396.2	9324.8	8825.0	8435.8	8441.4	9362.6	9478.8	8531.0
52.5°	8287.3	8433.0	9120.4	9803.7	9942.3	9610.5	9537.6	9722.5	10565.3	10664.7	9277.2
55°	7639.1	7822.5	8979.0	10150.9	10657.7	10537.3	10789.4	11070.8	11880.1	11944.5	10043.1
57.5°	7228.8	7423.5	8561.8	10446.3	11517.4	11702.2	12101.3	12307.1	13236.8	13400.6	10922.4
60°	6883.0	7035.6	8218.7	10509.3	12391.1	13127.6	13515.4	13728.2	14911.3	15017.7	11889.9
62.5°	6307.6	6482.6	7639.1	10069.7	12830.7	14268.7	15072.3	14977.1	16206.4	16280.6	12483.5
65°	5382.1	5397.5	6463.0	8965.0	12377.1	15009.3	16165.8	15766.8	16825.3	16875.7	12437.3
67.5°	4017.0	4165.4	4971.8	7046.8	10454.7	14376.5	16520.1	15787.8	16434.7	16294.6	11450.2
70°	2587.4	2700.8	3370.1	4886.4	7538.3	11997.7	15345.4	14705.5	14424.1	14113.3	9372.4
72.5°	1194.3	1339.9	2002.2	2791.8	4470.6	8546.4	12456.9	11947.3	10381.9	9614.7	5957.5
75°	520.8	557.2	988.5	1472.9	2096.0	4519.6	8213.1	7416.5	4689.0	4283.0	2384.4
77.5°	317.8	341.6	518.0	789.7	823.3	1722.2	4424.4	3235.7	1449.1	1278.3	646.9
80°	215.6	242.2	376.6	413.0	281.4	480.2	1660.5	863.9	292.6	280.0	138.6
82.5°	105.0	133.0	278.6	231.0	121.8	154.0	483.0	184.8	85.4	79.8	49.0
85°	15.4	26.6	156.8	151.2	54.6	36.4	85.4	46.2	29.4	28.0	22.4
87.5°	0.0	0.0	53.2	23.8	5.6	5.6	9.8	9.8	11.2	9.8	11.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7
2.5°	3655.7	3662.7	3636.1	3598.3	3557.7	3517.1	3459.7	3407.9	3377.1	3395.3	3350.5
5°	3721.5	3715.9	3645.9	3531.1	3378.5	3195.1	3013.1	2857.7	2807.2	2731.6	2723.2
7.5°	3812.5	3797.1	3648.7	3385.5	3041.1	2696.6	2360.6	2138.0	2010.6	1902.8	1905.6
10°	3940.0	3895.1	3616.5	3129.3	2562.2	2042.8	1614.3	1320.3	1192.9	1152.3	1120.1
12.5°	4071.6	3984.8	3526.9	2783.4	1995.2	1395.9	981.5	802.3	723.9	698.7	695.9
15°	4189.2	4052.0	3370.1	2367.6	1450.5	891.9	669.3	610.5	600.7	602.1	600.7
17.5°	4305.4	4105.2	3153.1	1926.6	985.7	639.9	575.5	561.4	565.7	571.3	569.9
20°	4402.0	4116.4	2875.9	1470.1	697.3	561.4	540.4	537.6	541.8	546.0	546.0
22.5°	4507.0	4124.8	2546.8	1017.9	569.9	522.2	511.0	511.0	516.6	522.2	523.6
25°	4585.4	4078.6	2153.4	730.9	502.6	484.4	478.8	480.2	485.8	488.6	487.2
27.5°	4598.0	3948.4	1736.2	560.0	456.4	438.2	432.6	438.2	431.2	435.4	432.6
30°	4609.2	3783.1	1313.3	471.8	414.4	386.4	378.0	369.6	364.0	357.0	355.6
32.5°	4644.2	3588.5	959.1	424.2	375.2	344.4	324.8	301.0	282.8	277.2	275.8
35°	4659.6	3354.7	704.3	386.4	340.2	306.6	271.6	238.0	211.4	201.6	208.6
37.5°	4718.4	3127.9	546.0	358.4	309.4	267.4	222.6	180.6	155.4	149.8	152.6
40°	4838.8	2881.5	457.8	334.6	282.8	231.0	176.4	135.8	119.0	113.4	112.0
42.5°	5032.0	2636.4	407.4	312.2	256.2	194.6	138.6	106.4	92.4	88.2	88.2
45°	5267.3	2401.2	372.4	288.4	228.2	156.8	109.2	85.4	77.0	74.2	74.2
47.5°	5576.7	2195.4	343.0	264.6	197.4	124.6	88.2	74.2	68.6	70.0	71.4
50°	5890.3	2042.8	310.8	238.0	162.4	102.2	75.6	65.8	64.4	65.8	65.8
52.5°	6126.9	1953.2	267.4	201.6	127.4	85.4	67.2	61.6	60.2	57.4	57.4
55°	6446.2	1933.6	212.8	163.8	100.8	71.4	60.2	56.0	51.8	49.0	47.6
57.5°	6856.4	1956.0	163.8	127.4	78.4	58.8	53.2	46.2	40.6	35.0	35.0
60°	7111.2	1905.6	127.4	98.0	57.4	47.6	40.6	33.6	26.6	22.4	21.0
62.5°	7030.0	1692.8	100.8	72.8	40.6	35.0	26.6	22.4	15.4	11.2	9.8
65°	6611.4	1366.5	81.2	50.4	29.4	21.0	14.0	14.0	7.0	1.4	0.0
67.5°	5786.7	1012.3	64.4	33.6	16.8	9.8	7.0	4.2	0.0	0.0	0.0
70°	4710.0	730.9	50.4	21.0	9.8	7.0	2.8	1.4	0.0	0.0	0.0
72.5°	2990.7	418.6	39.2	12.6	7.0	2.8	0.0	0.0	0.0	0.0	0.0
75°	1156.5	163.8	26.6	8.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	327.6	77.0	15.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	85.4	33.6	8.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.6	14.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.8	5.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)